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PTO/SB/05 (08-03) Approved for use through 07/31/2006, OMB 0651-0012
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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	2236.0030000/JUK/GSB	3
First Inventor	YANG et al.	553
Title	METHOD OF FABRICATING PATTERNED POLYMER FILM WITH NANOMETER SCALE	, <u>22</u>
Express Mail Lahel No		

See MPEP ch	—	ION ELEMENTS rning utility patent application contents.	Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450		
1. X Fee Tra (Submit 2. X Applica See 37 3. X Specific (preferre - Descrip - Cross I - Statem - Refere or a co - Backgr - Brief S - Brief S - Detaile - Claim(s	Insmittal Form an original and a nt claims small CFR 1.27. Eation d arrangement so to tive title of the lent Regarding Fince to sequence mputer program ound of the Invertummary of the Investigation of the ded Description	(e.g., PTO/SB/17) duplicate for fee processing) entity status. [Total Pages 15] et forth below) vention ated Applications ed sponsored R & D listing, a table, isting appendix ntion vention Drawings (if filed)	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS		
		113) [Total Sheets10	9. X Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of		
5. Oath or Decla		[Total Sheets 2	(when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations		
		pplication (37 CFR 1.63(d)) visional with Box 18 completed)	13. X Preliminary Amendment 14. X Return Receipt Postcard (MPEP 503)		
Š n 1	igned statement	INVENTOR(S) attached deleting inventor(s) application, see 37 CFR 3(b).	(Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35		
6. X Applio	cation Data Sho	eet. See 37 CFR 1.76	or its equivalent. Other: Authorization under 37CFR 1.136(a)(3) The name of the assignee is: Korea Advanced Institute of Science and Fechnology.		
		ATION, check appropriate box, an or in an Application Data Sheet un	nd supply the requisite information below and in the first sentence of the nder 37 CFR 1.76:		
Continu	uation	Divisional Co	continuation-in-part (CIP) of prior application No.:		
Prior application information: Examiner					
		19. CORRES	SPONDENCE ADDRESS		
	er Number:	26111	OR Correspondence address below		
Name		, Kessler, Goldstein & Fox P.I	L.L.C.		
Address	1100 1	New York Avenue			
City	Washi	-	State DC Zip Code 20005		
Country	U.S.A	1 / 1	Telephone Fax		
Name (Print/Typ	George S	S. Bardmesser	Registration No. (Attorney/Agent) 44,020		
Signature		U/W/S	Date //22/04		

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Signature

PTO/SB/17 (10-03)
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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

X Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 425.00

Complete if Known				
Application Number	To Be Assigned			
Filing Date	Herewith (January 22, 2004)			
First Named Inventor	YANG et al.			
Examiner Name	To Be Assigned			
Art Unit	To Be Assigned			
Attorney Docket No.	2236 0030000/ILIK/GSB			

Date

04

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check X Credit card Money X Other** None	3. ADDITIONAL FEES					
*Charge any deficiencies or credit any overpayments in	Large I	Entity	Small	Entity		
Deposit Account: the fees to Deposit Acci. No. 19-0036. Deposit Account 19-0036	Fee Code		Code	Fee (\$)		Fee Paid
Number	1051	130	2051	65	Surcharge - late filing fee or oath	
Account Sterne, Kessler, Goldstein & Fox P.L.L.C.	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
Name The Director is authorized to: (check all that apply)	1053	130	1053	130	Non-English specification	
Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month	
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month	
Fee Fee Fee Fee Pee Pee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Extension for reply within fourth month	
1001 770 2001 385 Utility filing fee	1255	2,010	2255	1,005	Extension for reply within fifth month	
1002 340 2002 170 Design filing fee 385.00	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402		Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403		Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 385.00	1452	110	2452		Petition to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453	1,330	2453	665	Petition to revive - unintentional	
Fee from	1501		2501		Utility issue fee (or reissue)	
Extra Claims below Fee Paid Total Claims 14 - 20 **= 0 X 18 = 0	1502	480	2502		Design issue fee	
Independent 2 3 *** 0 V 86	1503	640	2503		Plant issue fee	
Claims 2 - 3 - 5 - 6 - 0 Nultiple Dependent 0 0 0	1460	130	1460		Petitions to the Commissioner	
	1807	50	1807		Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity Fee Fee	1806	180	1806		Submission of Information Disclosure Stmt	——
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be	
1204 86 2204 43 ** Reissue independent claims					examined (37 CFR 1.129(b))	
over original patent 1205 18 2205 9 ** Reissue claims in excess of 20	1801 1802	770	1802		Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1002	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 0	B .	fee (sp				
**or number previously paid, if greater; For Reissues, see above	*Redu	ced by	Basic F	Filing Fo	ee Paid SUBTOTAL (3) (\$)	40.00
SUBMITTED BY					(Complete (if applicable))	
Name (Print/Type) George S. Bardmesser		Registrat			44.020 Telephone (202) 371	-2600

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

YANG et al.

Appl. No.: To Be Assigned

Filed: Herewith (January 22, 2004)

For: Method of Fabricating Patterned Polymer Film With Nanometer

Scale

Confirmation No.: To Be Assigned

Art Unit: To Be Assigned Examiner: To Be Assigned

Atty. Docket: 2236.0030000/JUK/GSB

Authorization to Treat a Reply as Incorporating an Extension of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

George S. Bardmesser Attorney for Applicants Registration No. 44,020

Date: ___January 22, 2004

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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January 22, 2004

WRITER'S DIRECT NUMBER: (202) 772-8782 **INTERNET ADDRESS:** GBARDMES@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No.: To Be Assigned; Filed: Herewith (January 22, 2004)

Method of Fabricating Patterned Polymer Film With Nanometer For:

Inventors:

YANG et al.

Our Ref:

2236.0030000/JUK/GSB

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- PTO Fee Transmittal (Form PTO/SB/17); 1.
- 2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 3. U.S. Utility Patent Application entitled:

Method of Fabricating Patterned Polymer Film With Nanometer Scale

and naming as inventors:

Seung-Man YANG, Se Gyu JANG and Dae-Geun CHOI

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. A facsimile copy of the original executed Combined Declaration and Power of Attorney;
- c. A specification containing:
 - i. eleven (11) pages of description prior to the claims;

Sterne, Kessler, Goldstein & Fox PLLC. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skgf.com

Commissioner for Patents January 22, 2004 Page 2

- ii. three (3) pages of claims (14 claims);
- iii. a one (1) page abstract;
- d. Ten (10) sheets of drawings (FIGs. 1, 2A-2B, 3A-3B, 3C-3D, 3E-3F, 4A-4B, 4C-4D, 5A-5B, 6A-6B and 6C-6D);
- 4. A Preliminary Amendment;
- 5. A certified copy of Korean Application No. <u>2003-0042676</u>, filed <u>June 27</u>, <u>2003</u>, priority of which is hereby claimed;
- 6. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 7. Recordation Form Cover Sheet;
- 8. A facsimile copy of the original executed Assignment to **Korea Advanced Institute of Science and Technology**, recordation of which is hereby respectfully requested;
- 9. Two (2) return postcards;
- Form PTO-2038 Credit Card Payment Form in the amount of \$425.00 to cover: \$385.00 Utility Filing fee; and
 \$40.00 Assignment Recordation fee.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

George S. Bardmesser Attorney for Applicants Registration No. 44,020

JUK/GSB:krh Enclosures

221376v1